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Technology Deployment

IDAHO NATIONAL ENGINEERING AND ENVIRONMENTAL LABORATORY

INEEL

HOME OF SCIENCE AND ENGINEERING SOLUTIONS

SWEPP Waste Assay Gamma Spectrometer

Problem
INEEL's Transuranic Waste project needed to upgrade the Stored Waste Experimental Pilot Plant's (SWEPP) gamma spectrometer system to accelerate certification of contact-handled transuranic (CH-TRU) waste drums for shipment to the Waste Isolation Pilot Plant.

Baseline Technology
Continued use of the the original SWEPP gamma spectrometer.

Innovative Technology
SWEPP Waste Assay Gamma Spectrometer upgrades include a shield enclosure with backup spectrometers, an automated drum transport system, and an automated data processing system.

Comparison
The upgraded system provides greater throughput and reliability than the original, which was not scaled to the demands of a production facility.

Benefits
This system enables the project to increase the number of CH-TRU waste drums available to meet a legally enforceable milestone to ship 3,100 cubic meters by December 31, 2002.

Project: ID-WM-103
INEEL Transuranic Waste
Non-OST